SL-II MC802/1
Time: 07:25 CDT, 17:12:25 GMT
9/10/73

PAO This is Skylab Control. Now we're about to acquire through the Hawaiian tracking station, now on the 387th revolution. We'll stand by for that communication with the crew over Hawaii.

CC Skylab, Houston. We're AOS, Hawaii, for the next 8 minutes.

SC Roger, Dick.

CC Roger.

SC Hey, you might pass to the EREP people that - Pete tried to get you last time, but we were already LOS. On that EREP pass yesterday, we got a end of tape light on the tape recorder about 2 seconds after the pass - after the data tape was completed.

CC Understand.

SC Yeah, that - that means that we did in fact come to the end of tape also. Besides getting the light we were in fact at it, cause we did the (garble).

CC Roger, understand.

CC And, CDR, Houston. We think possibly what you might have seen when your EVA on the command module was the two overboard dump nozzles for - one for water, one for urine and I'm told they do have a sort of blunt appearing goal to cover. And if you're - that might be a - a thought. If you are familiar with the way they look and that wasn't it, maybe we'll think some more.

SC Yeah, that's probably what it was.

CC Roger.

SC Okay.

CC Skylab, Houston. For the photography question, I'm told that the for out-the-window photography with the color interior film, you should set a ASA to 500, 500 vice 160.

SC Oh, ho. That's backwards from what we had. Glad we asked the question, though. We've been shooting it at 16 - 160 ASA and the film is labelled ASA 500.

CC Well, why don't we recheck our answer?

SC Why don't you do that, because the twix came up - the second twix that came up we got on that because we were reviewing your what in effect messages message last night. And my rememberance of that because we've lost that twix. Yeah, that's why we brought the subject up was to take color interior which is labeled ASA 500 and shoot it out the window at 160th, but if you use it inside also, the same roll of film continue to shoot it at 160 and then they'll process it that way it'll be okay inside and outside. So, let's doublecheck the answer, please.

CC We certainly will do that.

SC Thank you, sir.

END OF TAPE

SL-II MC-803/1
Time: 07:31 CDT, 17:12:31 GMT
6/10/73

SC And, Houston. For your information we were discussing, tomorrow is the first day that we get to where we get to break out the last thing.
CC Hmmmm.
SC Exactly, that's what I thought. And I think I know what he's talking about.
CC (Laughter) Well, I won't say Roger.
SC I'll rephrase it. It's the first time we do something for the last time.
CC Hey, okay.
SC Hey, Dick, I guess the other thing on this fire sensor, if in fact that the fire sensor assembly and we're reading the malf procedure, is what is no good anymore and it got (garble) by the sun, is it possible that even, that it could get BOG power off, or does it have to have electrical power on it? In other words, when we do our next EVA, do we need to cover that thing or do we just need to turn it off?
CC That's a good question, and EGIL is thinking about it, Pete. We're 1 minutes from LOS. We're going to see you at Goldstone at 12:38.
SC Okay.

END OF TAPE

SL-II MC-804/1
Time: 07:36 CDT, 17:12:36 GMT
6/10/73

CC Skylab, Houston. We're AOS Goldstone for 6 minutes.
SC Roger.
CC Skylab, Houston. Be advised we've - we're doing unattended ops, we've had another high voltage tripoff on S055 and we're going to command it back on.
SC Okay.
CC Skylab, Houston. Be advised we're about 20 seconds from LOS. We're going to see you at MILA at 12:50 and we're going to be dumping the data tape recorder at MILA.
SC Okay.
PAO This is Skylab Control. Now we're passing over the top of the Texas area of coverage and we'll acquire at MILA in about 5 minutes. We don't have Bermuda coverage this revolution. The Bermuda tracking station is committed to supporting the unmanned radio astronomy Explorer B satellite launch, from Cape Kennedy. That is scheduled for 10:13 eastern daylight time, 9:13 central and the Bermuda tracking station is committed up through revolution 389. Now we're currently just beginning revolution 388, coming down across the United States just above the Great Lakes. At 12 hours 36 minutes Greewich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-805/1
Time: 07:48 CDT, 17:12:48 GMT
6/10/73

PAO This is Skylab Control. We're now in contact with Skylab through the MILA tracking station, Merrit Island Launch Assembly tracking station, at Cape Kennedy. And we'll stand by for conversation with the crew through MILA.

CC Skylab, Houston. We're AOS at MILA for 4 minutes.

SC Roger, Houston. We're getting a lot of good pictures in the Great Lakes region and in New England, this morning.

CC Incidentally, I did check again in the backroom and you were right and we were wrong. The A - ASA settings for out the window photography should be 160 and that does coincide with the previous message you had onboard.

SC Glad to hear it, cause that's what we're using right now.

CC Right - you're doing the right thing.

CC Skylab, Houston. We're 45 seconds from LOS. We're going to see you at Ascension at 13:05 and I made a mistake a while ago, the Ascension pass is where we're going to be dumping the data tape recorder.

SC Oh, okay.

PAO This is Skylab Control. We're now out of contact through MILA and we'll be picking up the spacecraft over Ascension in about 11 minutes. There will be no change-of-shift press briefing following this shift. The oncoming Flight Director is Milton Windler and our spacecraft communicator and CAP COM is astronaut Bob Crippen, replacing astronaut Richard Truly, in the CAP COM position. Again, no change-of-shift press conference this morning. At 12 hours 55 minutes, this is Skylab Control.

END OF TAPE

SL-II MC806/1
Time: 08:04 CDT, 17:13:04 GMT
6/10/73

PAO This is Skylab Control at 13 hours 4 minutes Greenwich mean time. And we're coming up now on acquisition of Skylab through the Ascension tracking station. During the morning as we have loss of signal with Skylab, we'll be turning the air - the release line over periodically to Delta Launch Control at Kennedy Space Center for periodic status reports on the preparations for the launch of RAEB, the Radio Astronomy Explorer B satellite from Cape Kennedy this morning.

CC Good morning, Skylab. We're AOS over Ascension for the next 11 minutes; 11 minutes.

SC Hello again.

CC Hello, hello.

CC And, Skylab; Houston. Be advised we're in the process of during nav update for you, so you might stop for that, if you have any need for it.

SC Okay, we will. And I see the SCAN SPECT light has gone out, so you must have fixed your high voltage detectors.

CC Yeah, those thing have been tripping on and off for us several times here.

SC Hey, Crip. I got an update on our prior detectors (garble) information for you.

CC Go ahead.

SC We changed out the fire sensor assembly, or whatever you call it; the detector itself. No change in the status. We then went ahead and changed out the fire sensor control panel, and that took care of it. So what we've got in dome 432 locker now is a fire sensor detector that's got some time on it, but it's apparently okay. And we've got a control panel in there on which sensor 2 side is no good, but sensor 1 side is. So that's still available as a spare for those two places where we only run one sensor off the control panel, anyway.

CC Okay. And say again where you stowed that in, please.

SC Back where it came from.

CC Okay. Very good.

SC 432, 4-3-2.

CC That's fine. All right. Thank you.

END OF TAPE

SL-II MC807/1
Time: 08:10 CDT, 17:13:10 GMT
6/10/73

CC Skylab, Houston. We've completed our nav update. The DAS is yours again. And we will need a momentum INHIBITED, please - dump INHIBITED.

SC Okay, momentum is INHIBITED, Houston. What's the reason for that?

CC We had one scheduled here - let's see - it was supposed to be done - rog. The maneuver is supposed to start you ZLV maneuver is supposed to start when you would nominally be dumping.

SC Roger.

CC Skylab, Houston. We're 1 minute from LOS. We'll see you again at Guam at 13:52, 13:52.

SC Okay.

END OF TAPE

SL-II MC808/1
Time: 08:15 CDT, 17:13:15 GMT
6/10/73

PAO This is Skylab Control. That's all the communications we'll be getting through the Ascension tracking station this revolution. The station at Carnarvon, Australia is committed to launch for the RAEB, radio astronomy explorer B satellite this morning from Cape Kennedy and will not be used for Skylab for this and the next revolution. Our next station to acquire will be Guam and that will be in about 35 minutes. At this time, we'll switch to delta launch control at the Kennedy Space Center for a status report on the launch of RAEB. This is Skylab Control at 12 hours 16 minutes Greenwich mean time.

END OF TAPE

SL-II MC309/1
Time: 08:48 CDT, 17:13:48 GMT
6/10/73

PAO This is Skylab Control at 13 hours 49 minutes Greenwich mean time. Skylab is in it's 388th revolution. We've just passed out of range of the Carnarvon Australian tracking station. That station was not up to support Skylab, however. And we'll be acquiring at the Guam tracking station where we expect to get voice and teleretry data in about 2-1/2 minutes. Coming up on this revolution and on into the 389th revolution, we'll have our seventh EREP pass of the mission. Skylab will be pointing it's cameras and remote sensors on the western hemisphere to study the resources of the planet and prominent in todays 6500-mile long pass will be studies of urban and regional planning for several areas of the Mid-west. Also, an investigation of the environmental impact of Illinois Oakley Reservior. Further data acquisition on the impact of strip mining in Indiana and surroundings sites. And data will be used for surveys of the urban growth in Cedar Rapids and Davenport, Iowa; also Ashville, North Carolina. Skylab's earth resources experiment package sensors including the seperate Earth-terrain camera, which provides detailed photographs of areas beneath the space station are scheduled to be turned on at 9:19 central daylight time. As the laboratory passes over the Fraser River, northeast of Vancouver, British Columbia, the sensors will be turned off, and the space station reoriented 27 minutes later when the space station has passed over the coast of Brazil into the South Atlantic Ocean about 600 miles south of Resende. Weather conditions over the midwestern United States appear good, with light cloud cover for the majority of the United States test sites. Heavier clouds are expected on the East Coast and in the Caribbean. And these clouds will be valuable sources of data for several atmospheric studies. Cameras will also be turned on during this EREP pass over Brazil to support investigators in that country, although heavy cloud cover is reported in this area and may prevent useful data from being acquired in South America. Three aircraft will be flying support missions recording additional data during the Skylab pass over South Dakota and the Wabash River area. In addition to a C130 aircraft flying from Langley Air Force Base in Virginia over sites within the continental U.S. and specifically in South Dakota, a C47 flown by the University of Michigan and a specially equipped B57 will cover the Wabash River test region.

CC Skylab, Houston. We're AOS over Guam for 6 minutes.

CC Skylab, Houston. We're AOS over Guam for about 9 minutes.

CC And, Skylab, we're going to be turning on the primary coolant loop once more, which means you're going

to get a PRI COOL FLOW C&W.

CC And Paul, if you read, for the EREP maneuver we will need you to enable the TACS.

SC Say again, Crip.

CC Roger. We show that the TACS are inhibited at this time and we will need them in enabled for the maneuver.

PAO This is Skylab Control. As mentioned previously, the primary coolant loop is being brought on line this morning.

CC Skylab, did you copy my call regarding turning on the pri cool-primary coolant loop, and you should be getting a pri cool flow C&W.

SC (garble)

PAO Following yesterday's test of the primary coolant loop, the plan is to bring it on this morning. They'll be commanded on from the ground. And we hope to get additional data on the loop performance to reinforce our confidence that that loop is performing properly. With the improved electrical power system aboard Skylab, additional equipment is being brought on line. This is also having the affect of raising the temperature slowly in the workshop from the heat load introduced by the electrical equipment. EGIL reports that the temperature in the workshop is running around 75 degrees now, which is considered ideal. This has come up 2 or 3 degrees since the additional equipment was brought on. He doesn't expect the temperature to rise a great deal more, but the exact point of which it'll stabalize is not known. It is felt that the rise in temperature will be very gradual and should be very little from this point on.

PAO And our telemetry data shows that the primary coolant loop is being brought up. We're showing a flow rate of about 200 pounds per hour in the primary - primary loop, a little over 200 pounds in the secondary loop, which is also on line.

PAO And EGIL reports that the primary coolant loop is looking good. Our telemetry data shows the temperature there of around 47 degrees at the moment.

CC Skylab, Houston. We're 1 minute until LOS. We'll have you again at Guam at 13:52- correction, at Goldstone at 14:17, 14:17, and we're - have the primary coolant loop on; it looks good to us. We're going to leave it on. If any problems should occur while we're LOS, you can go ahead and secure it.

SC Okay.

SC Could you hear me over the coolant noise, Bob?

SL-II MC809/3
Time: 08:48 CDT, 17:13:48 GMT
6/10/73

CC	Affirmative.
SC	Okay. I got my mouth right against the mike.
PAO	This is Skylab Control. We're now - -

END OF TAPE

SL-II MC-810/1
Time: 09:15 CDT, 17:14:15 GMT
6/10/73

[illegible] This is Skylab Control at 14 hours 16 minutes Greenwich mean time. Coming up on acquisition at Goldstone, California, and our 7th EREP pass of the mission. This will be a 6500-mile-long pass that begins in the northwestern United States, continues on down across the central U.S., out over the Carribean, over Puerto Rico and on over Brazil. For 27 minutes of data gathering. We'll be acquiring at Goldstone in a little over 1 minute.

SC Five-tenths courage, the man says.
SC I have Goldstone in about 1 minute.
CC We got you now guys.
SC Hi, there; how do you read VOX?
CC Loud and clear.
SC Okay.
SC I just gave it to this friendly tape recorder, but I'll give it to you. 92's in CHECK, the door's OPEN; 91's ON, the DOOR's open; 90's ON, STANDBY, the door's OPEN. 93 RAD's in STANDBY, 93 SCAT to STANDBY, 93 altimeter's OFF, 94's ON. Verified green light, all doors are open, all tape recorder power's on.
SC Yea!
SC And while we're sitting here waiting to start, the secret of sucess on that S191 cooler is the C-7 start temperature we were starting with, start temperature about 35 percent, now, and it figures right on up. As soon as you bring on 191 power to about 45, then as soon as you turn the cooler on, it takes about 4 minutes for it to come-off scale high and it starts at 100 percent and then races right on down to 30. And for your information, we do not get the S191 READY light until it's dropped to 43 percent.
SC Which is about were it stays, huh, now?
SC No, it goes to 30; it drops to 30.
SC Yeah, all right.
SC Oh man, are the Cascades ever pretty this morning.
SC Stand by for an 18:24 EREP start coming up.
SC Man, oh man.
SC I got a picture of that for you, Paul.
SC Okay, good.
SC MARK. EREP START.
SC Got a TAPE MOTION light.
SC 92 to MODE READY.
SC 94, MANUAL. I want an AUTO CAL 2, what do it.
SC Done.
SC S190 to MODE AUTO; ETC, AUTO.
SC SCAT's ON; RAD's ON.

SL-II MC-810/2
Time: 09:15 CDT, 17:14:15 GMT
6/10/73

SC A blinking RAD/SCAT gimbal light, but that's normal. Okay, I got a green on the tape recorder, green TAPE MOTION; a 192 green; a 190, green; and a 93 RAD/SCAT, green; and a 94, green.

SC Man, I hope this solid cloud deck isn't the five-tenths coverage you guys forecast.

SC They wouldn't do anything like that.

SC There's some holes out front.

SC Yeah, and I'm looking 45 degrees ahead.

SC Okay, Houston; for information, at 45 degrees forward, the only thing I can see through the haze is the Sun shining on some lakes.

SC 18:20:21. Okay, stand by; 47 on the FRAME COUNT, 2140 altimeter to STANDBY, I got an S191 READY light on time.

SC Altimeter to STANDBY, 94 MODE AUTO, MODE AUTO on 90 23:21. I'm standing by for it. I'm not going to do that. I'm going to do that on S193 polarization to 4, okay?

SC Okay, Houston. I got the reservoir on this side, but the desired side is under some clouds. We'll give it a try.

SC Okay.

SC MARK. 23:21 polarization 4, going shutter speed MEDIUM at 30 on S190. Here we go to B, 27; we got to put 92 to CHECK. That's a long time from now. What are you running over there, PLT?

SC Ground. ... - -

END OF TAPE

SC Okay. I'm doing you a short shot of that first special there, Houston. I got A field. I'm not going to carry the full (garble) on it. I got to get on to the next one.

SC 25 1.3. 2458.

PAO This is Skylab Control. After an ontime lift-off, the unmanned RAE-B satellite appears to be on a good trajectory toward the moon. We'll have a wrapup summary report from the Cape on that as soon as we have loss of signal in this stateside EREP pass.

SC I'm on the -

SC I've got so much - -

SC Okay. Tracking the reservoir, Houston, on the next site.

SC Can't draw very good.

SC What doesn't?

SC Clouds through this thing.

SC With the yellow filter?

SC Yeah.

SC Once you get them identified, you can pick out details better, but I just prefer the light filter.

SC Oops!

SC You're going to blow my big deal here. S192 to CHECK and 27 - -

SC (Garble) help me.

SC S192 to CHECK; 27:42. A little SCAT/RAD to STANDBY here.

SC Well, if you wanted clouds over land on this nadir swath, Houston, you're getting you some good ones. I'm giving you a few flicks of DAC. You didn't ask for it, but you're getting it.

CC Thank you.

SC 28:13.

SC Oh!

SC RAD/SCAT to STANDBY. RAD, STANDBY.

SC MARK. Altimeter is on. RAD's gone off at 28:10. RAD's off. 93 has gone CROSSTRACK CONTIGUOUS. (Garble) 30. S190's READY out at 28:59. That's funny. I don't have a READY light.

SC It's already timed out.

SC At least it quit running.

SC It sure did.

SC You know, when I looked down, the S190 READY light is out and going to STANDBY. ETC to STANDBY. Select fast frame 12. It's still running down there. I can hear that.

SC Okay. TC is STANDBY and it's frame count is 373.

SC Okay.

SC Hey, you got almost 2 minutes, huh?

SC Houston, you there? Must have been looking out over the water, huh?

SC Yeah.

SC My ears are (garble).
SC And you find out on 41 you got to get it all back on again by 53. That's assuming besides that - assuming you started on time. Yeah, that's where you get in a box, man. You miss one of the babies and you're screwed.
SC (Singing)
CC While you've got a blank spot here, we'd like you to leave the TACS enabled for this dump coming up after the maneuver.
SC Okay.
SC We suspect that would be a good idea. It banked the wave pretty good going in.
CC Roger. We had a maneuver time problem.
SC What happened?
CC It was supposed to have been 25 minutes. You maneuvered at 13.
SC Ho, ho. You mean we entered it wrong?
CC We're not sure. We'll talk about it later.
SC Okay.
SC Hey, Crip. On those VTS sites, on the first run for the EREP guys, I'm not sure at all I got the right field. The one I was on was probably north of the one they wanted.
CC Copy.
SC The second, the special 14, I picked a field and got a l seconds of tracking on it, and 520 of them we got good.
CC 1 minute till LOS Guam at 15:30 for a data recorder dump also.
SC Okay.
SC We get 92 back on again?
SC Hey, Crip. Are you with me?
CC Affirm.
SC 35:31 (static)
CC Affirmative. Checks out.
PAO This is Skylab Control. Now we've had loss of signal now through Mila and on this revolution, the 389th, the space station passes between the acquisition circles of Ascension Island and Vanguard. And we don't acquire again until - the Carnarvon location, and Carnarvon on this rev is committed to the PAE-B launch. We will be acquiring at Guam in about 54 minutes. Flight Director reports that the EREP pass appeared to go smoothly. All equipment judging from crew comments was performing as expected. The crew did report some cloud cover, heavy cloud cover over the northwestern United States that had been expected. There also appeared to be some broken clouds over the central U.S. At one point Pete Conrad remarked that they were selecting an alternate site for tracking in the visual tracking system.

SL-II MC-811/3
Time: 09:24 CDT, 17:24 GMT
6/10/73

This EREP pass will continue over Brazil; however, our weather reports earlier indicated that there would be considerable cloud cover over Brazil. At this time, we'll switch to Delta Launch Control at Cape Kennedy for a status report on the launch of the RAE-B satellite. This is Skylab Control at 14 hours 37 minutes Greenwich mean time.

END OF TAPE

SL-II MC-812/1
Time: 10:27 CDT, 17:15:27 GMT
6/10/73

PAO This is Skylab Control at 15 hours 28 minutes Greenwich mean time. About 2-1/2 minutes away from reacquiring at Guam after a fairly lengthy period of silence. We expect to have acquisition for about 6-1/2 minutes through Guam. And one of the things that we'll be looking at is the performance of the primary coolant loop in the airlock module. During the previous revolution, we activated the primary loop to get a good look at it over a sustained period of time and see if the fix that was made yesterday is holding and if that loop is continuing to perform properly. The data that we've gotten on it up to now has suggested that it is performing properly, and is controlling the temperature very close to the desired 47 degrees Fahrenheit. And we'll take a look at it now when we receive data over Guam and see if that is continuing to be the case. At some point, the time has not yet been set yet, but we expect in the near future, a procedure similar to that used with the primary loop will be tried with the secondary loop, which has been the coolant loop that we've been using since the primary loop first went down. The secondary loop, however, is controlling on the cool side; and it's controlling at a temperature of about 40 degrees instead of the desired 47, indicating that the temperature control valve there is also a little bit on the cold side - controlling a little bit toward the cold side, dumping too much of the coolant into the radiator. Let's hope that the same procedure that was used effectively on the primary loop will bring the secondary loop up to the desired nominal. And that will be tried sometime in the near future. And we're about 25 seconds now from reacquiring radio contact with Skylab through Guam. We'll stand by for that acquisition.

CC Skylab, Houston. We're AOS over Guam for about 6 minutes, and we'll be doing a data recorder dump.

CC Skylab, Houston. If anybody's got an opportunity, we'd like to talk about that maneuver time problem we had for the EPEP pass.

SC Go ahead.

CC Yeah. Apparently, we maneuvered with a 13-minute maneuver time, which was what was originally in the computer, and it wasn't updated with the 25-minute maneuver. Can you verify it for us that the 25-minute was put in?

SC Best of my knowledge, it was.

CC Okay. It was changed properly. The 10 minutes that you put in for a maneuvering out, worked out right and that's what you - what you went by. But apparently it didn't get updated on the initial part.

SC Well, it's possible that - We were in a hurry putting it in. And it's possible that the ENTER didn't get in it, or something. But I'm trying to remember, if it

didn't, why we would have gotten hung up somewhere along in putting the pad in, wouldn't we?

CC Yes, you should have.

SC Well, Paul put it in, and to the best of his knowledge he put it in correctly. It doesn't mean that we didn't make a mistake. But like I say, if he didn't get an ENTER in or missed a number, you know, I think we would have - you'd get a computer reject or something would hapoen that we couldn't have kept on going with the pad.

CC That should have been the case. This is the first time we tried that with the secondary computer, and we are wondering whether we had a problem with it. I guess we'll keep looking at it and see what the story is. Thank you.

SC Okay. I don't - I give it 50 50. I think we probably might have screwed it up - or the computer could have missed it, one of the two. We were in a hurry and we were a little late and he was putting it in pretty fast. But I still think we should have gotten a reject or something.

CC Copy.

SC Okay, I got a couple of questions for you.

CC Go ahead.

SC Okay, on the day 16 in the stowage book, day 16 transfers - it indicates that we change out our sleep restraint top blanket and address cover. And I can't find that spelled out anywhere in a system's housekeeping or - nor have I seen it come up in our pads. I was wondering about that one. That's question one. Question two is, we don't know what you intend to do with 509. But we would like to know whether you want us to take the launch locks off it or not, which we were going to do anyhow for SL-3, so that they didn't have to train for that. We're more than happy to remove the launch locks or leave them the way it is. We'd like an answer on that one.

CC Okay; copy. We'll get people to research them for you.

SC And, Houston; SPT.

CC Go, SPT.

SC Just a comment that occurred to me on thin maneuvering time business. For future reference, it's a shame that we don't have feedbacks in this computer as we do in the command module computer. Being able to see what it is you've loaded before you proceed with it. We load something here kind of in the blind, and we press on without ever really knowing whether it was correct or not.

CC We had the same comment down here.

SC Okay.

SL-II MC-812/3
Time: 10:27 CDT, 17:15:27 GMT
6/10/73

SC Okay, Houston. My next question is since the primary loop is running, I would like to check SUS 1 again. And also would like to know when we can clean up the LCGs and turn off SUS 2.

CC Okay, we're still looking at it right now, but we'll take your desires under advisement.

SC Okay. Well, I'm going to go up and turn on SUS 1 at the 317 panel or whatever it is, just to check that caution and warning thing.

CC EGIL - we would prefer if you did not do that right now, Pete.

SC Okay.

END OF TAPE

SC Let me know when I can check it.
CC You're welcome.
CC Skylab, Houston. We're 1 minute from LOS. We'll see you again at Goldstone at 15:54; 1554. And, Skylab, we've just up-linked a - an addition to your solar activity. And there's a prominence coming over the east limb that we'd like to modify Paul's run at around 17:00, and that gives you the details of what we'd like you to do.
SC Okay, Houston.
CC And, Joe, you might want to take a look at it - in your next run.
SC You bet.
PAO This is Skylab Control. We're out of range now of the tracking station at Guam. About 15 minutes from reacquiring at Goldstone. And during that Guam pass, we got a good look at the primary coolant loop and everything appeared stable and running about as we had seen it previously, with the temperatures control valve holding the temperature right around 47 degrees; the desired level. This is Skylab Control at 15 hours and 40 minutes Greenwich ·an time.

END OF TAPE

SL-II MCB14/1
Time: 10:52 CDT, 17:15:52 GMT
6/10/73

PAO This is Skylab Control at 15 hours 53 minutes. The space station coming now on Goldstone, California. We're about to acquire through that tracking station. And on this stateside pass, one of the crew activities will be operation of the Apollo telescope mount experiments. And we expect to be getting ATM video. We have about 30 seconds until the expected acquisition. This will be a Goldstone-Texas-MILA coverage, and we have AOS now. CAP COM Bob Crippen is putting in a call to the crew.

CC - do it this pass, if there is no problem with that.

SC No problem.

CC And CDR, Houston; I have answers to a couple of those questions, if you can hear me.

SC Go ahead.

CC Okay, regarding your sleep restraint top cover changeout and headrest, we've got that scheduled currently for tomorrow; and it's in housekeeping 14 Echo.

SC Okay.

CC And we're currently - we agree with you about removing the launch locks on M509 and we're currently looking at putting that in the schedule some place.

SC Okay. Are you contemplating flying 509 on this flight or not?

CC I don't really believe they're thinking too seriously about that right now.

SC Okay.

CC Okay. And regarding the coolant loop, and checking out SUS 1; we currently have a test going on in St. Louis trying to duplicate what happened to it and we're - So, really what we're interested in is just finding out why we have the problem. And they suspect there's a possibility tha there might have been some contamination in the EVA portion of the loop. That's one of the reasons we're a little bit reluctant to turn SUS 1 on and get that all set up right now.

SC Okay.

CC For your information, when we did check it out, that SUS 1, as far as this flow the other day, it did flow with no problem. So that portion of it does work.

SC Okay.

CC And we are probably - if - we definitely will be checking out SUS 1 before the EVA. And we'll probably be doing that within the next couple of days.

SC Okay.

SC Fine.

SC Very good.

SL-II MC814/2
Time: 10:52 CDT, 17:15:52 GMT
6/10/73

SC How about shutting SUS 2 down?
CC They don't - they don't - There is also a - that PCDB is still hung toward the cold side a little bit and I think they're pondering trying to do something similar that they did to the primary coolant loop. And they want to do that and get it all checked before they take that SUS 2 off.
SC Okay.
SC Thank you.
SC Thank you.
CC Joe, when you get a chance, we'd like to have you cycle your star tracker acquisition switch to AUTO and to reinable the TACS.
CC Correction, to disable the TACS.
SC Yeah.
SC Say Crip, for information, after the ERP pass some time, I went to AUTO on the star tracker just for grins and I checked it a few minutes and it was still in AUTO with the shutter cock thing showing open. And it was several minutes after I started. I don't quite understand. I didn't have time to look at it any further; those are just the indications.
CC Okay, copy that.

END OF TAPE

SL-II MC-815/1
Time: 11:06 CDT, 17:16:06 GMT
6/10/73

PAO This is Skylab Control. That's all through MILA for this revolution. We'll pick up through the tracking ship Vanguard in about 10 minutes, and then following the Vanguard pass, we'll have a period of about 1 hour where we're out of contact before reacquiring again at Goldstone. During that pass we were receiving ATM video in part from the on-board video tape recorder. Between takes of the ATM video, we were also seeing brief bits of yesterday's television, which had not been erased from the recorder. At 16 hours 10 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-816/1
Time: 11:18 CDT, 17:16:18 GMT
6/10/73

PAO This is Skylab Control at 16 hours 19 minutes Greenwich mean time. And we're about 1 minute away from reacquiring through the tracking ship Vanguard. We'll stand by for that acquisition.

CC Skylab, Houston. We're AOS over the Vanguard for the next 8 minutes and we will be doing a data recorder dump at this time. Sorry I missed your last LOS call.

PAO Skylab is now in its 390th revolution and at this time the science pilot, Joe Kerwin, has the ATM experiment duties. Commander, Pete Conrad, and pilot, Paul Weitz, are scheduled to be taking care of housekeeping chores, physical training. They've also got time allocated in this next revolution for personal hygiene. And we'll begin eating lunch. Major activities this afternoon will be operation of the Apollo telescope mount, and medical experiments, M092 and M171; also M131 is scheduled with science pilot, Joe Kerwin and pilot Paul Weitz involved in the medical experiments while Pete Conrad operates the ATM this afternoon.

CC For the SPT, I know you're busy with your (garble) coalign, but you can just copy this later. Currently on housekeeping 28 Lema, that you're scheduled to do, it calls out urine bags and it was supposed to have been urine disposal bags on it for inventory.

CC Skylab, Houston. We're 1 minutes until LOS. We'll have you again at Goldstone at 17:31, 1731.

PAO This is Skylab Control, out of range now the Vanguard tracking ship. And about 1 hour - or 2 minutes away from reacquiring at Goldstone. As we begin to go more and more off range, we'll reach a point this afternoon where we'll go a complete revolution or more without station coverage. At 16 hours 29 minutes, this is Skylab Control

END OF TAPE

SL-II MC817/2
Time: 12:29 CDT, 17:17:29 GMT
6/10/73

CC Paul, do you still have that pad with the numbers on it for the 25 minutes?
SC Yeah.
CC Okay. You've got a GO to go ahead and try it.
SC Okay. (Garble)
SC Okay. (Garble) I guess.
CC Paul, we're going to display a single memory location, so if you'll give us the DAS for a minute there, we'll make sure whether it got down or not.
SC All right.
SC You still there, Houston?
CC Affirmative.
SC Hey, I've run this CO test and it appears, taking into account the original color of the tube to start with, that the CO is somewhere between 0 and (garble) 25 parts per mill But it essentially didn't change the tube at all.
CC Okay. I understand it didn't really change color and between 0 to 25 parts per million. And, Paul, the DAS is yours again.
SC Okay. Tank it?
CC Rog. And for you guys information, on page 4-11 of your ATM systems checklist, it gives the memory location of the commanded maneuver time. You might - you could look at it if you wanted to verify it getting in.
SC Okay.
PAO This is Skylab Control. The space station now out of range of the Texas tracking station and about 13 minutes away from Vanguard, which will be our last station contact until the vehicle gets around to Hawaii in a little over an hour - hour and 20 minutes from now. Another relatively quiet pass that time. The crew involved in some housekeeping activities. And we suspect that they'll also be getting lunch if they're not already eating their noon meal. At 17 hours 45 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC817/1
Time: 12:29 CDT, 17:17:29 GMT
6/10/73

PAO This is Skylab Control at 17 hours 30 minutes Greenwich mean time with Skylab coming up on Goldstone for our last stateside acquisition of the day. And it's been a relatively quiet period in Mission Control. This is our first acquisition in over an hour as we reach that period of time where we have rather strung out station coverage during the flight where we have only two - at this particular time, only two - if you count Texas, which is a very short amount of coverage - three ground stations in a revolution. We'll have acquisition through Goldstone just the corner of the Texas area of coverage and then down across the Vanguard tracking ship and no additional coverage until we come back around to Hawaii on the following revolution. Skylab now in the end of its 391st revolution. Or correction 390th revolution coming up on the 391st. The Flight Plan calls for ATM operations with the Pilot, Paul Weitz, having ATM duties. Commander Pete Conrad, Scientist Pilot Joe Kerwin are scheduled to eat lunch during this period of time, and this afternoon we'll have medical experiment, M092, the lower body negative pressure and M171. Here is the call to the crew.

CC - - fifteen minutes.

SC Howdy, Houston.

SC Houston, CDR.

CC Go, CDR.

SC On the housekeeping 7 Kilo-1, have you got any particular place you'd like that taken? It's a CO sample.

CC Stand by 1.

CC CDR, Houston. On that housekeeping 7 Kilo-1, you can take that CO any place in the OWS.

SC Okay.

CC And, if the SPT is available, I was wondering if - whether he copied my change to his housekeeping 28 Lima message.

SC No, sir.

CC Okay. Currently in your remarks on your detail pad it calls out urine bags as part of that inventory. That was supposed to be urine disposal bags.

SC Okay. I interpreted it as such, and it's on channel B.

CC Very good. Thank you.

CC And, PLT. If you're not using the DAS currently, would like to try to put a maneuver time into the computer to see whether it takes or not.

SC Okay.

CC Okay. We're so doing.

SC How about a bike ride sometime, too?

CC Stand by 1, Paul.

:L-II MC818/1
Time: 12:56 CDT, 17:17:56 GMT
)/10/73

PAO This is Skylab Control, we're about to acquire for 7-1/2 minutes through the tracking ship Vanguard.

CC Skylab, Houston. We're AOS over the Vanguard for about 8 minutes. Sorry I missed that LOS call again.

SC Say, Crip, for some reason I misplaced the message that told me what to do with the six UCTAs that I came up with in the command module. I remembered that it said don't use them for the EVA, 'cause they all fixed that tracer in them. Would you tell me where it is they wanted us to stow those six UCTAs?

CC Roger. Stand by 1.

SC Thank you.

CC Pete, regarding your UCTAs, the message stated that they should be stored in D, Dog, 426 and marked UCTA with tracers.

SC Okay. Very good.

CC Roger. And - -

SC Thank you.

CC P.J., we copy that you're operating H-Alpha in over-ride right now. Just want to make sure that you get it back to normal so that you won't be taking pictures on the dark side.

SC Thank you.

CC Skylab, Houston. That load of maneuver time that we did a while ago worked okay. You've got 25 minutes sitting in there. It's a maneuver time, for information.

SC Okay. Thank you, Bob.

CC Skylab, Houston; we're 1 minutes from LOS. We'll have you again at Hawaii at 19:05, 1905. And we'll be doing a data recorder dump at that station.

PAO This is Skylab Control. Space station over the hill at Vanguard now and 1 hour away from acquisition at Hawaii. Another relatively quiet pass. Continuing to operate with both coolant loops; primary and secondary. The primary temperature control valve holding at a steady 47 degrees, or very close to it. And the secondary loop also stable at - between 40 and 42 degrees which was what it has been operating at. And in the Control Center, and also at contractor plants, continuing to look into the situation on the coolant loops and attempting to develop sequence of events that led up to the problem that was experienced with the primary loop. Attempting to understand that problem and also, at the same time looking into some additional troubleshooting procedures with the secondary coolant loop. The current plan would be to attempt

L-11 MC818/2
Time: 12:56 CDT, 17:17:56 GMT
7/10/73

he same procedure with the secondary loop that was used with he primary loop to open up the warm flow in the secondary loop nd get that temperature up to the desired level of around 47 de- rees, as opppsed to the 40-degree range that it has been operating n. At 18 hours 7 minutes, this is Skylab Control, Houston.

END OF TAPE

SL-II MC-819/1
Time: 14:03 CDT, 17:19:03 GMT
6/10/73

PAO This is Skylab Control at 19 hours 4 minutes Greenwich mean time. About a minute away from, rather 2 minutes away from establishing radio contact with Skylab through the Hawaiian Island tracking station. Our first contact in over an hour. And continuing very quiet here in Mission Control. Aboard Skylab, Commander Pete Conrad is scheduled to be operating the ATM experiment, the Apollo telescope mount. A variety of small tasks for Scientist Pilot, Joe Kerwin, including some housekeeping activities. And Pilot, Paul Weitz, is scheduled to get a rest period. We have a call to the crew from CAP COMM Bob Crippen.

CC Skylab, Houston. We're AOS over Hawaii for about 6 minutes, and we will be doing a data recorder dump.

SC Roger, Houston.

CC Skylab, Houston. According to our review of channel B, you should be down to about two urine bags in the waste management compartment and tomorrow you're scheduled to resupply it. For tomorrow morning you might want to pull out a urine bag out of the dome locker for use tomorrow morning. That's in D410.

SC Okay. You're right. Thank you.

CC And, Skylab, Houston. In our reviewing of the data, it apparently - On that maneuver time problem we got into this morning for the EREP pass, the function code that was loaded in was mistakenly put in as a 32003 and which is a display code of course, and so that was the reason we didn't get the correct time.

SC Roger.

SC Houston, are you ready?

CC Skylab, Houston. We're 1 minute from LOS. We'll see you again over the Vanguard at 19:33; 1933.

PAO The Skylab space station has moved out of range of the Hawaii tracking site. We expect to reacquire in approximately 22 minutes. At 19 hours 11 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-820/1
Time: 14:30 CDT, 17:19:30 GMT
6/10/73

PAO This is Skylab Control at 19 hours 31 minutes Greenwich mean time. The space station is nearing the end of its 391st revolution around Earth. About a minute and a half away from acquisition at the Vanguard Tracking Station. According to the Flight Plan, the commander Pete Conrad, is at the Apollo telescope mount doing some Sun watching, while the other two crewmen are respectively resting and doing a little bit of housekeeping. Meanwhile here at the Mission Control Center, the flight controllers are talking about mission day 18. That's tomorrow, June 11th. We'll hold up the line for any radio communication with the crew over Vanguard during this pass, which will last about 10 minutes.

CC Skylab, Houston. We're AOS over the Vanguard for about 8 minutes.

SC Roger.

CC Roger. CDR, do you have a moment to talk to us, please?

CDR Go ahead.

CC Okay. We'd like find out about the desicants in - the ones that you changed previously on 190. Did you - When you looked at them this morning, could you tell any color change, and if so, what color were they?

CDR No, I couldn't see any color change, and what we observed on the lenses was still there. There - just a minute. Now. Yes, Paul's right. The two good ones do look a little paler, as if they have started to take the moisture out. But we still couldn't tell any difference on the lenses. I'm not sure we (garble) the lenses with moisture anyhow. I wanted to ask you what you would like us to do with the suit desicants in that we have six suit desicants out now out of twelve because we put four each suit in instead of two each suit originally. And now we're down to two because we can cook those out. And I have six outish. Do we cook those out before we put them away, or just put them away as is? And when we get the answer to that question, then I was going to start making out S190 desicants in the desicant oven.

CC Okay, I think we copied all of that. And also, Pete, because the command module cryo 02 pressures are increasing due to being at minimum UDM, we would like in that housekeeping period you got about, oh, just before 23:00 for you to do the cryo 02 damp procedure that's in your system checklist - CSM system checklist, page S4-7.

CDR Just a second. S4-7. Okay.

CC Appreciate it. Thank you.

PLT Hey, Crip.

CC Go ahead.

SL-II MC-820/2
Time: 14:30 CDT, 17:19:30 GMT
6/10/73

PLT Okay, I've been working on S009 for about 15 minutes. There's something wrong with it. It's sick. Now, on the CLOSED cycle, the motor cuts out. It only does it on the CLOSED; I don't know why. I went to set it last time, and the package was part way open. I suspect, now, part way closed, and stuck there. And even with no load on it, when you go to CLOSE, the thing just stalls out and spits and sputters and makes it - and, well, you've got about a 50-50 chance of a close in the package.

CC Okay. We copy it.

PLT Okay; so until we hear from you, I'm going to stow the package in the thing, CLOSED.

CC Roger.

CC P.J., could you tell us whether you think it might - it might have been binding, or do you think it was in the motor itself.

PLT No, I don't think it's binding, Crip. Because, as I say, I took the package clean out. And it won't even close by itself without the package in there. And it only does it on the CLOSED cycle. It's not - used to be, anyway, I'm pretty sure there is still some slip rings inside the gear wheel drive and that's not slipping because I can see the end of the axles on the gear. The axes, are now going together when they go. So it sounds like to me like it' the ' motor, when it goes in the CLOSED position for some reason - in the CLOSED direction.

CC Okay. Very good report. Thank you, Paul.

CC And just a little bit of info. For your information, we are - we have completed that ATMDC switchover that we've talked about, of course, and we're operating in secondary. We got part of the memory reloaded with the Y RATE GYRO scale factor - update rather. And we're going to be completing the load tomorrow morning.

SC Okay.

CC Skylab, Houston. We're about to go LOS in about 10 seconds. We'll see you again over Hawaii at 20:40, and we will be doing a data recorder dump at Hawaii.

SC (Garble)

PAO This S009 experiment that the pilot was talking about - that the pilot said was, "sick" is an astrophysics experiment, identified as nuclear emulsion. He said that he thought it was stuck in the CLOSED cycle. It stalls out and he said he thought it spits and sputters. With that kind of information, the flight controllers here at the Mission Control Center are going to check out that experiment, and perhaps come up with some kind of a fix, if indeed something is wrong. We will acquire again over the Hawaii tracking site in 56 minutes. At Greenwich mean time, 19 hours 44 minutes, this is Skylab Control.

END OF TAPE

SL-II MC-821/1
Time: 15:39 CDT, 17:20:39 GMT
6/10/73

PAO This is Skylab Control at 20 hours 39 minutes Greenwich mean time. About one minute from acquisition of signal at the Hawaii tracking station. We just had an indication from the warbler here in the Mission Control Center that we are going to acquire the crew again. We expect to have about 10 minutes of air-to-ground and we'll stand by to hear any communication that comes from the ground up to the spacecraft and conversely from the spacecraft down to the ground.

CC Skylab, Houston we're AOS over Hawaii for about 10 minutes, for about 10 minutes. We will be doing a data recorder dump.

PLT Roger.

CC And CDR, if you've got a moment I need to talk to you please sir.

PLT He's making a pitch on B channel right now I'll give him a holler as soon as he's through.

SPT He's busy right now and he says he'll be with you in a couple of minutes.

CC Thank you.

CDR Go ahead, Houston.

CC Okay, Pete. On the previous ATM rev you did for us we copied that 82-A was in SHORT instead of being in LONG. Can you confirm for us one way or the other what the wave length was?

CDR The wave length was LONG.

CC Okay, you say you ran it in LONG, is that correct?

CDR That is correct.

CC Okay.

CDR It's in LONG right now.

CC Roger, and the pass before this it was in LONG also?

CDR That's right and what static do you want on the (garble) (garble)? I got it running on three right now.

CC We'd like that on one, Pete.

CDR Okay, I'll go to one.

CDR Are you talking about the five-minute exposure lens size or the one minute and 40 second exposure lens size? Both (garble) in lock.

CC Okay.

CDR You might look at 56 right now - no I take it back, by golly it did not stick in active 1 launch, it went on through. I'll have to eat my words.

CDR Okay, Houston, the (garble) is in 1 and it's all rigged up.

SL-II MC-821/2
Time: 15:39 CDT, 17:20:39 GMT
6/10/73

CC Roger, copy.
CC Skylab, Houston we're about 30 seconds from LOS. We'll see you again over Vanguard at 21:12, 21:12.
CDR Roger.
PAO Communication between the Skylab space station and the ground during this Hawaii pass was relatively limited - due in part to the fact that the Commander was at the Apollo telescope mount and the other two crewmen were performing a medical experiment, the M092, lower body negative pressure experiment and the M171 metabolic activity. In the case of the latter, the Science Pilot, Joseph Kerwin, was the subject and Pilot Paul Weitz, was the the observer. We will pick up the space station again at 19 hours - correction - 19 minutes 24,25 seconds over the Vanguard tracking site. And we'll have the space station for approximately 8-1/2 minutes. At 20 hours 52 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-822/1
Time: 16:09 CDT 17:21:09 GMT
6/10/73

PAO Skylab Control Houston, at 21 hours 9 minutes Greenwich mean time, approximately a minute and a half from acquisition of the Skylab space station by the Vanguard tracking site. Nearing the end of the 392nd revolution. We'll stand by for air to ground over the Vanguard site. Expect to have the station in communications for about 8-1/2 minutes.

CC Skylab Houston. We're AOS over Vanguard for about 8 minutes.

CC Skylab Houston. We're about 30 seconds from LOS. We'll have you again at Hawaii at 22:23, 22:23.

CDR 22:23, bye bye.

PAO When the Skylab space station came into communications range with the Vanguard tracking ship the medical officers reported that the Science Pilot was right in the middle of his metabolic activity experiment. The M171, which among other things includes riding the ergometer. They reported his heart rate at the offset had approximately 140 beats per minute, indicating that he was pumping that stationary bicycle like a proverbial 60. He then eased off to approximately 70 beats per minute. And when we last saw his indications he was down to approximately 67 beats per minute. That is with the ergometer in the vectorcardiogram system acronym VCG, which is all part of the M171 metabolic activity. We have gone beyond the tracking station capability of Vanguard. We'll acquire again in approximately 1 hour at the Hawaii site for a relatively short pass, approximately 55 seconds to a minute. So at 21 hours 22 minutes Greenwich mean time, this Skylab Control.

END OF TAPE

SL-II MC-823/1
Time: 17:48 CDT, 17:21:48 GMT
6/10/73

PAO This is Skylab Control, Houston, 22 hours 48 minutes Greenwich mean time. About to acquire the space station after a long period of time when it was out of contact with any of the tracking stations. We're about a minute and a half away from acquisition at the Vanguard site and we will stand by for radio communication with the crew.

CC Skylab, Houston we're AOS over Vanguard for the next 10 minutes.

PLT Okay.

CC Sorry about that Hawaii site (garble) We learned after we'd called it out to you that they weren't going to have it.

PLT All right.

CC And if CDR's available I have an answer to his question regarding the suit drying desicant.

CDR Go ahead.

CC Okay, you're not to dry the six additional ones. Just go ahead and stow them back in 424.

CDR Okay, thank you. Listen, we have a bit of a problem with SO52. It's on B channel, but I'll give it to you on real time now. I went to - I've met all the pre-requisites with the READY light and went to OPERATE in STANDARD and it will not go to OPERATE. Now, we've gone through the malf procedure and we have wound up down to where the problem is turned over to you because it says in the malf procedure we either have a camera failure or a primary programer failure. Okay.

CC Okay, let me see if our ATM people have got any questions on that.

CC Pete, about all the information we can give you right now is we have noticed an increase in camera temperature and we'll take a look at it.

CDR Okay, it still works fine and looks good and everything. It - as I said, malf procedure left it there, so it's over to you.

CC Rog.

END OF TAPE

SL-II MC-824/1
Time: 17:53 CDT 17:21:53 GMT
6/10/73

CC Skylab Houston. We're 1 minute to LOS. We'll have you again over Ascension at 23:03.

CDR Roger.

PAO During the acquisition at the Vanguard site the Commander, Charles Pete Conrad reported what appears to be a problem in the S052 camera, that's the white light coronagraph camera as part of the ATM experiments group. He said that he attempted to operate it in the standard method and he had no success. And he speculated that either the camera magazine failed or the primary program failed. And told the ground that they should take it from there. They accepted the challenge and are now looking into the problem, and will come up with some resolution during subsequent passes. There is a change of shift briefing scheduled in the News Center Briefing Room at approximately 6:15, some time between 6:15 and 6:30 p.m. central daylight time with Milton Windler the Flight Director of the off going maroon team participating. At - well we're practically a minute and a half away from acquisition at the Ascension tracking site. We will leave the line up for the air to ground that we expect over Ascension. We'll be in communication with the crew for a[illegible] minutes and a half during the Ascension pass.

END OF TAPE

SL-II MC-823/1
Time: 18:02 CDT, 17:22:02 GMT
6/10/73

CC — Skylab, Houston, AOS 10 minutes.
PLT — Roger, how are you this evening, Bill?
CC — Very well, know the nights from the days down here.
CDR — Hey, Houston are you still with us?
CC — We're still here. Go ahead.
CC — Skylab, Houston. We're standing by.
CDR — Roger, are you going to have a CAL/ROC tomorrow?
CC — Stand by a half, Pete. Don't believe such.
CDR — Also, Houston, when are you going to ship up the - do you know when you are going to ship up the preliminary plan for tomorrow?
CC — They should be in the teleprinter now, Pete.
CDR — Okay, we'll go look.
CC — The NRL CALROC is scheduled on day 164 Pete. And - -
CDR — On 164. Thank you.
CC — And we'll be LOS in one minute, Guam at 23:49.
PAO — The Skylab space station has passed out of range of the Ascension tracking station. CALROC meant - was an acronym for calibration rocket. A launch of a calibration rocket will take place on day 164 and translated that is the 13th of June. We will next acquire the space station over Guam in about 35 minutes. At 23 hours 14 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-826/1
Time: 19:00 CDT 18:00:00 GMT
6/10/73

PAO This is Skylab Control, at 48 seconds into day 162. During the press conference, the change of shift briefing of the Skylab space station was in acquisition at the Guam tracking site. And we received approximately 3 minutes of radio transmission. We'll play that radio transmission to you at this time.

CC Skylab Houston. AOS for 7 minutes.

CDR Roger.

CC SPT Houston.

SPT Go ahead.

CC You're scheduled to monitor, do TV monitoring on the XUB. After you've completed that, could you get some white light coronagraph data on the VTR recorder? You have up to, they don't want it exceeded, up to 7 minutes on the VTR.

SPT Will do.

CC SPT Houston.

SPT Go ahead.

CC We're going to be uplinking some loads for the computer here, so if you would stay off the DAS until we give you a call please.

CDR Okay. And while you're there Phil, let me give you the day 160 evening status report, which you apparently didn't get.

CC Go ahead Pete, we're standing by.

CDR Okay Alfa CDR 158, SPT 150, PLT 250. Bravo CDR 4042, SPT 7218, PLT 3759. Charlie CDR 6084, 6081, 6083; SPT 6678, 6677, 6681, PLT 6800, 6811, 6813. Delta CDR 2/12/1255 1/05/0250; SPT none; PLT 2/15/2300. Echo none, none, none.

CC We copy Pete.

CDR And the evening questions. Number 1, the PLT did go over on SUS 2 and I don't think any of us noticed any difference during the EVA. Question number 2 doesn't make sense. I don't understand it. So that will have to be retransmitted. It says for the CDR and the SPT weren't you already on SUS (garble) LSU during the EVA prep 1.2-9. And I guess I've got to look in the book or something. And you've got the day 160 medical data. And the answer to question number 4 would you consider adding M551/2 and 3 to your shopping list after we did figure up (garble) verification on M551-1. And I guess that's okay with us.

CDR Copy that Houston?

CC We copy Pete.

CDR Okay.

CC Skylab, we're going LOS. We'll have you at Vanguard at 00:26.

CDR Roger.

SL-II MC-826/2
Time: 19:00 CDT 18:00:00 GMT
6/10/73

PAO We understand that at the Vanguard tracking site the flight controllers in Mission Control Center will transmit to the crew further information on the S052 white light coronagraph. And we'll stand by for that transmission. In essence what they are going to ask the crew to do is to attempt to operate the instrument normally. And that will permit the ground to look at it particularly on a pass that comes up in about an hour from now. At which time the Science Pilot will be at the Apollo Telescope Mount station. And we should be in contact with the spacecraft through Canary, Madrid and a little later at Guam. So, we'll be standing by for the information that comes from the spacecraft during that time in connection with the S052 white light coronagraph experiment. At 6 minutes into the new day Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-T1 MC-827/1
Time: 19:25 CDT, 18:00:25 GMT
6/10/73

PAO This is Skylab Control, day of year 162, 25 minutes into the new day. The space station is ending it's 394th revolution. We are approximately a minute and a half away from acquisition at the Vanguard site and we'll stand by for the radio communication between crew and ground.

CC Skylab, Houston AOS for 11 minutes at Vanguard.

CDR Roger, Houston, are you ready for the evening status report?

CC That's affirm, Pete.

CDR Okay, the CDR ate everything plus he's going to eat two cans of butter cookies. And he had two optional salts. SPT ate everything plus one extra ounce of water and that was it for him. PLT - wait one. PLT ate everything plus one H2O DELTA and 5.5 optional salts.

CC Copy.

CDR Excuse me - correct (garble) says zero Delta on the water.

CC Copy.

CDR Okay, the photos for day 161: 16 millimeter is EREP BHO2, 65 S 487 Delta. Charlie India 05 4[illegible], Charlie India 01 and 487 I think it's Fox. Charlie India 05 40 percent Charlie India 01; 35 millimeter CI26 60 frames - it's complete. CI28 04, CI34 all complete 60 frames, CI27 58, CX06 089. The ETC 373, EREP set Oboe was completed today. We loaded S190 set P in the drawer L. The drawer A configuration is as follows A-1 02, Charlie India 0540 Charlie India 01 A-2 was 03, Charlie India 06 62, Charlie India 03 A-3 06, Charlie India 07 00, Charlie India 04. A-4 is 05, Charlie India 65, 100 percent, Mike Tango 11. Okay, there were no flight plan deviations today, no changes in stowage, inoperable equipment S052 you know about and we have one comment on tomorrow's flight plan. Joe said he very carefully debriefed a waste of time to do an M172 cal. If you want it done per checklist - old checklist it'll get done in an hour. If you want it done right it's going to take him two to two and a half hours to do and y'all can advise us later on what you'd like to do on that.

CDR And that's it.

CC Okay, we're making - we're working a very much abbreviated procedure in that 172. We'll get that up to you and if you get an opportunity to comment on what you think it'll take on time we would - -

END OF TAPE

CC - abbreviated procedure on that 172. We'll get that up to you and if you get an opportunity to comment on what you think it'll take on time, we would appreciate that. We've tried to reduce it by two-thirds.

CDR Oh, this is a new procedure you're sending up huh?

CC A one time only, that's affirmative.

CDR Oh, okay. Very good, I understand - we'll go for that one then.

CDR You guys got any news for us tonight?

CC We're still having trouble digging that up early Pete. We should have that again about the same time as last night.

CDR Oh, okay. Very good.

CC Things are pretty quiet here on Earth.

CDR Well, it's pretty quiet up here. We had a good work day and it sorta sounded like you guys were running on a very light operation down there today.

CC Hey, Pete you three up there can keep those 3CO busy and you're turning all day long down here, you'd be surprised.

CDR (Laughter)

CC They haven't even gotten the data yet.

CDR No, they couldn't - defense as a good offense. You guys keep us three busy too.

CC We copy, Pete.

CDR How about asking the CSM fellows - I see that cryo press is down to 850 and I would assume that it'll hold at 850 with the poly choke where it is.

CC Okay, I'll ask somebody.

CC And just info Pete on that 172 procedure. We'll try and have it to - subjected to the sort of thing that he went through on that last cal on that.

CDR Okay, fine.

CC Skylab, LOS in one minute. Ascension at 00:40 and Pete, we're trying to get you clarification on question two. Also -

CDR Okay, I haven't looked at the EVA checklist. Maybe it'll make it self-explanatory when I go up there and (garble)

CC I don't think that'll help you, Pete.

CC Also, it appears that the S052 camera is jammed and we would like for you to attempt to operate that normally on the next schedule.

CDR Okay.

CDR Then you don't want us to do an EVA tonight to change it, huh?

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CC That's affirm.
CC Pete, no telling what you might run into wandering around in the dark out there.
CDR (Laughter)

END OF TAPE

SL-II MC-829/1
Time: 19:39 CDT 18:00:39 GMT
6/10/73

CC Skylab Houston. AOS for 8 minutes.
SPT Roger.
CC What do we have going there, evening song?
SPT A message to Lee this week (garble) I'm listening to the Crede in Latin, and she'll know how happy I am.
CC Copy.
CC And be advised that we're configuring the gyros for sleep, Y 1 and 2 ON and 3 is backup.
SPT Roger.
CC And we've just got a few little news items here if it won't interrupt anyone.
SPT Yeah.
CC It says that Skylab isn't the only space news today. Explorer 49, the radio astronomy satellite was launched this morning from Kennedy. It'll orbit the Moon and record deep space radio signals. It may give scientists clues on the early history of the Universe. You might watch for it going by.
SPT (garble)
CC And on the political scene, it says that Egyptian President Sadat is in Libya today to discuss the planned merger of - -

END OF TAPE

SL-II MC-830/1
Time: 19:47 CDT, 18:00:47 GMT
6/10/73

CC - the political scene it says that Egyptian president Sadat is in Libya today to discuss the planned merger of Egypt and Libya. Also, the - President Nixon is proposing a new cabinet level department to be called the Department of Energy and Natural Resources. Don't know whether you're aware of it but they're limiting gas to - at a lot of places down here to 10 gallons per fill-up and that sort of thing. And Houston lost yesterday, Pittsburg 4-1. Also, today Richard Teddy won the Alamos 500 with a Dodge Charger, Brinker was second. Here's a late one that says the Astros won over the Pirates today. The Cubs won over (garble) 8-7.

CDR They'll do it, I'll tell you.

CC And we're 30 seconds to LOS here. And we've got the conference coming up.

CDR Thank you, Houston.

CC And Skylab, we're AOS again for approximately three minutes.

CDR Roger.

PAO The Skylab space station has - -

CC - in Guam at 124.

CDR Roger.

PAO As you heard the Skylab space station has gone over the hill. We'll re-acquire at the Guam tracking site in 25 minutes. At one hour Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-631/1
Time: 20:21 CDT 18:01:21 GMT
6/10/73

PAO This is Skylab Control at 1 hour 21 minutes Greenwich mean time. The Skylab space station is about 2 minutes and a half from acquisition at the Guam tracking site. During the pass just completed over the Canary Island tracking station the surgeon Dr. Charles E. Ross, held his daily medica' conference with the crew. And this is what he reports, and I'll quote his "The Skylab crew is in good physical condition and feel well rested. No problems of a medical nature were transmitted by the Science Pilot, Dr. Joseph Kerwin." And that's the end of the daily medical bulletin, a short one. We're a minute and a half away from acquisition. At this time, we'll keep the line up for any radio transmission with the crew.

CC Skylab Houston. AOS for 10 minutes.

SPT Roger.

CC CDR Houston.

CDR Go ahead.

CC Pete, avoid a caution and warning on the cryo tank tonight. We recommend that you remove the poly choke. You leave the high pressure vent hose connected, since it has only, and this will give you a rise of only 1 pound per hour. And we confirm that you have 860 pounds pressure in that.

CDR Okay, we'll secure the poly choke (garble) You want to take the poly choke off, not shut off the supply, right?

CC Stand by a second on that one CDR.

CC Pete, if we understood your last transmission, that simply remove the poly choke but do not, repeat do not turn off the supply.

CDR Okay, I understand. Thank you.

END OF TAPE

CC Also, CDR, we have the teleprinter message coming up for the 1?2 procedure which is not really a cal procedure, and it's coming up on this pass for your review.

CDR Roger, Bill.

CDR Okay, Bill the choke is off, the EVA 02 supply valve is OFF and the vent is hooked up and that ought to take care of it for tonight.

CC We concur with that Pete.

CC SPT, Houston.

SPT Go ahead.

CC We confirm on S052 that you have a camera failure - the programer is all right. We want you to terminate the mode with a STOP and put manual power switch to STANDBY, that's main power switch - main power switch to STANDBY.

CC Also, do not proceed with the video recording - the white light coronagraph.

SPT Roger, Houston.

CC Skylab, Houston, LOS in one minute through Vanguard at 02:05.

SPT Roger, Houston.

SPT Houston, SPT. On the H-alpha up here - this is just for information - it's looks as though there's a subflare in active region 27, I believe it is, and 07062.

CC Copied that, SPT.

SPT I'm just going after it.

PAO We appear to have passed out of communication range with the Guam tracking site. The ATM officer here advises that apparently there is a camera failure on the S052 experiment, the white light coronagraph experiment part of the ATM, and that he is now busy trouble-shooting to attempt to find out what the problem indeed is. The S052 was terminated and is now on STANDBY. Tomorrow, mission day 18 will be highlighted with an EREP pass - identified as Earth Resources experiment number 8 - pass number 8. Starting at about 12 minutes after 10:00 central daylight time, and continuing for 28 or so minutes until 10:40 the track is in a - from a northwesterly to southeasterly direction, commencing at the other side of Portland, Oregon, cutting across the United States. Of interest to the people in Texas and Oklahoma will be the fact that the pass cuts through the Dallas area and one of the highlights of the pass will be for the crew to take pictures of what are expected to be some rather severe storms in the area of the northwest of Dallas. The pass itself is approximately 6700 nautical miles long and will end up in the South Atlantic Ocean, southeast of Sao Paulo. We expect since there is moderate cloud cover over most of the area that we will have

SL-II MC- 832/2
Time: 20:27 CDT, 18:01:27 GMT
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a lot of weather information from the pass tomorrow. Concurrently with the EREP pass two aircraft will depart Ellington and one of them will fly over the Gulf to seek ground truth and the other will fly in a northerly direction to seek ground truth. Also, on tap tomorrow are the usual medical experiments the M092 and the M171. Next acquisition will be at the Vanguard tracking site in 26 minutes. We'll be up for about seven minutes there. At one hour 39 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-833/1
Time: 21:03 CDT 18:02:03 GMT
6/10/73

PAO This is Skylab Control Houston at 2 hours 3 minutes Greenwich mean time. We're about a minute and a half from acquisition at the Vanguard station about an hour from when the crew will be given a good night according to the flight plan. Flight plan indicates that all 3 crewmen at this time are in or are just about to enter their presleep activities We'll stand by for any kind of transmission between ground and crew.

PAO The Skylab space station has moved beyond the Vanguard tracking ship. There was no communication at Vanguard. The network officer tells us that the reason we had no air to ground was that there was an apparent antenna problem with the tracking ship Vanguard, and we were unable to acquire any information at this particular time. It is not a spacecraft problem, but rather a ground problem which we feel comfortable that we can fix without undue delay. Our next acquisition is at the Canary Island site in 9 minutes. At 2 hours 15 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-834/1
Time: 21:23 CDT, 18:02:23 GMT
6/10/73

PAO This is Skylab Control, Houston, two hours 23 minutes Greenwich mean time. About a minute and a half from acquisition at the Canary Island station on revolution 395 - 396 starting rev 396. We should have continuous com for about 19 minutes through the Canaries and Madrid. We would expect that the crew is in its final pre-sleep activities at this particular time. We'll stand by for air-to-ground.

CC Skylab, Houston AOS one-five minutes.

PLT Roger, Houston.

CC And Vanguard lost its antenna which accounts for us not calling you on the last pass.

PLT That's okay.

CC Skylab at LOS in one minute. It's the last pass of the evening unless the CDR works late tonight. The tape recorder will be dumped at Honeysuckle at 03:12.

CDR Okay, goodnight. The CDR is already in his sack.

CC We copy.

CDR I'm not very dependable am I?

CC (Garble) Copy.

PLT Good night.

CC Good night

CDR Have you two guys met?

SC (garble)

CDR Well, Bill, as a matter of fact this is the first time I've settled down into my sack tonight reading a book.

CC Hey, Pete, that probably is some sort of a record for you isn't it?

CDR Yeah, we ran out of things to do. We activated 509 this evening, then (garble) didn't have anything to

CC We copy.

CC We've got to be careful with that sort of transmission, Pete. I saw three guys reach for 482's down here to start scheduling.

CDR Yeah, Paul already hit me over the head.

CC (Laughter) We copy.

CDR On his way to -

PAO The last little bit of transmission between the ground and the crew before they went to bed - before they retired for the night. The Commander said we activated M509 - in a humorous manner he said it. M509 is the astronauts maneuvering equipment and that raised a few eyebrows here. It was indeed in humor. The Commander indicated that he was in his - as he said - sack already, reading a book, so we bid him good night on another busy day at the end of the 17th mission day. At two hours 40 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE